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## INDEX TO AMERICAN BOTANICAL LITERATURE

1913-1916

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Andrews, A. L.** Two extensions of range. *Bryologist* **19**: 37, 38. 26 My 1916.

† † *Sphagnum Dusenii* from British Columbia, and *Rhabdoweisia crispata* from North Carolina.

**Andrews, E. F.** Socialism in the plant world. *International Socialist Review* **17**: 18, 19. f. 1. J1 1916.

**Anthony, R. D.** Some notes on the breeding of raspberries. *New York Agr. Exp. Sta. Bull.* 417: 75-88. pl. 1-8. Mr 1916.

**Bailey, L. H.** Nomenclatorial transfers. *Rhodora* **18**: 152-160. 1 J1 1916.

**Benedict, R. C.** The origin of new varieties of *Nephrolepis* by orthogenetic saltation. I. Progressive variations. *Bull. Torrey Club* **43**: 207-234. pl. 10-15. 16 Je 1916.

**Benedict, R. C.** Some interesting fern papers in *Rhodora*. *Am. Fern Jour.* **6**: 33-37. Je 1916.

**Berry, E. W.** Contributions to the Mesozoic flora of the Atlantic coastal plain—XI—Tennessee. *Bull. Torrey Club* **43**: 283-304. pl. 15. 29 Je 1916.

Includes *Myrica ripleyensis*, *Bauhinia ripleyensis*, and *Myrcia havanensis*, spp. nov.

- Berry, E. W.** The physical conditions and age indicated by the flora of the Alum Bluff formation. U. S. Dept. Int. Geol. Surv. Prof. Paper 98-E: 41-59. *pl.* 7-10 + *f.* 8. 27 My 1916.  
Includes *Ulmus floridana*, *Sabalites apalachicolensis*, *Pisonia apalachicolensis*, *Caesalpinia Sellardsi*, *Fagara apalachicolensis*, *Rhamnus apalachicolensis*, *Bumeila apalachicolensis*, *Nectandra apalachicolensis* and *Sapotacites Spatalatus*, spp. nov.
- Berry, E. W.** The physical conditions indicated by the flora of the Calvert formation. U. S. Dept. Int. Geol. Surv. Prof. Paper 98 F: 61-73. *pl.* 11, 12. 27 My 1916.  
Includes *Quercus chapmanifolia*, *Ilex Calvertensis*, *Phyllites cercocarpifolia*, *Cassia toraformis* and *Berchemia priscaformis*, spp. nov.
- Bicknell, E. P.** The ferns and flowering plants of Nantucket—XVII. Bull. Torrey Club 43: 265-276. 16 Je 1916.  
Includes *Galinsoga aristulata* sp. nov.
- Bigelow, H. C.** Fall fruiting of the interrupted fern. Am. Fern Jour. 6: 56. Je 1916.
- Boyer, C. S.** The Diatomaceae of Philadelphia and vicinity. 1-143. *pl.* 1-40 + *frontispiece*. Philadelphia. 1916.
- Britton, E. G.** The preservation of our native plants. Jour. N. Y. Bot. Gard. 17: 72, 73. 22 Je 1916.
- Britton, E. G.** Wild plants needing protection. 11. "Bloodroot" (*Sanguinaria canadensis* L.). Jour. N. Y. Bot. Gard. 17: 63, 64. *pl.* 171. 22 Je 1916.
- Britton, E. G.** Wild plants needing protection. 12. "Fringed Gentian" (*Gentiana crinita* Froel.). Jour. N. Y. Bot. Gard. 17: 81, 82. *pl.* 172. 14 Jl 1916.
- Britton, N. L.** The natural vegetation of the Isle of Pines, Cuba. Jour. N. Y. Bot. Gard. 17: 64-71. *pl.* 170. 22 Je 1916.
- Burlison, W. L.** Availability of mineral phosphates for plant nutrition. Jour. Agr. Research 6: 485-514. *pl.* 73-80. 26 Je 1916.
- Burnham, S. H.** The admirable *Polyporus* in the flora of the Lake George region. Torrey 16: 139-142. 15 Je 1916.
- Buswell, W. M.** The birch harvest. Am. Bot. 22: 16-18. F 1916. [Illust.]
- Campbell, D. H.** The archegonium and sporophyte of *Treubia insignis* Goebel. Am. Jour. Bot. 3: 261-273. *f.* 1-6. 15 Jl 1916.
- Carhart, M.** A collector's list of New Jersey ferns. Am. Fern Jour. 6: 51-54. Je 1916.
- Churchill, J. R.** *Lappula deflexa* in Vermont. Rhodora 18: 138-140. 1 Je 1916.

- Collins, G. N.** Correlated characters in maize breeding. Jour. Agr. Research **6**: 435-454. *pl.* 53-63. 19 Je 1916.
- Conard, H. S.** *Nymphaea* and *Nuphar* again. Rhodora **18**: 161-164. 1 Jl 1916.
- Cook, M. T., & Lint, H. C.** Potato diseases in New Jersey. New Jersey Agr. Exp. Sta. Circ. 53. 1-23. *f.* 1-9. 1916.
- Cook, O. F.** Branching and flowering habits of cacao and patashte. Contr. U. S. Nat. Herb. **17**: 609-625. *pl.* 44-54. 28 Je 1916.
- Coons, G. H., & Levin, E.** The *Septoria* leaf spot disease of celery, or celery blight. Michigan Agr. Exp. Sta. Special Bull. 77: 1-8. *f.* 1-9. Mr 1916.
- Davis, B. M.** Hybrids of *Oenothera biennis* and *Oenothera franciscana* in the first and second generations. Genetics **1**: 197-251. *f.* 1-26. My 1916.
- Detwiler, S. B.** The redwoods. Identification and characteristics. Am. Forest **22**: 323-328. Je 1916. [Illust.]
- Douglas, G. E.** A study of development in the genus *Cortinarius*. Am. Jour. Bot. **3**: 319-335. *pl.* 8-13 + *f.* 1. 15 Jl 1916.
- Duggar, B. M.** *Rhizoctonia Solani* in relation to the "Mopopilz" and the "Vermehrungspilz." Ann. Missouri Bot. Gard. **3**: 1-10. F 1916.
- Duggar, B. M.** The Texas root rot fungus and its conidial stage. Ann. Missouri Bot. Gard. **3**: 11-23. *f.* 1-5. F 1916.
- Erwin, A. T.** Late potato blight in Iowa. Iowa Agr. Exp. Sta. Bull. 163: 287-305. *f.* 1-8. Ap 1916.
- Evans, A. W.** Lichens and Bryophytes at Cinchona. Science II. **43**: 918. 30 Je 1916.
- Ewing, H. E.** *Trifolium pratense quinquefolium*. Am. Nat. **50**: 370-373. *f.* 1. Je 1916.
- Farr, C. H.** Cytological material at Cinchona. Science II. **43**: 918, 919. 30 Je 1916.
- Fernald, M. L.** The genus *Sabatia* in New England. Rhodora **18**: 145-152. *pl.* 121. 1 Jl 1916.  
Includes *Sabatia Kennedyana* sp. nov.
- Fernald, M. L.** *Prunus virginiana* the correct name of the choke cherry. Rhodora **18**: 140, 141. 1 Je 1916.
- Fletcher, E. M.** Wool-waste plants at Westford, Massachusetts. Rhodora **18**: 143, 144. Je 1916.

- Gates, R. R., & Goodspeed, T. H.** Pollen sterility in relation to crossing. *Science* II. **43**: 859-861. 16 Je 1916.
- Gilman, J. C.** Cabbage yellows and the relation of temperature to its occurrence. *Ann. Missouri Bot. Gard.* **3**: 25-82. *pl.* 1, 2 + *f.* 1-21. F 1916.  
Cabbage yellows caused by *Fusarium conglutinans*.
- Gloyer, W. O., & Fulton, B. B.** Tree crickets as carriers of *Leptosphaeria coniothyrium* (Fckl.) Sacc. and other fungi. *N. Y. Agr. Exp. Sta. Tech. Bull.* **50**: 3-22. *pl.* 1-4. Mr 1916.
- Cookin, A. L.** Plant wastes. *Am. Bot.* **22**: 10-15. F 1916. [Illust.]
- Graff, P. W.** Basidiomycetes collected in Indo-china by C. B. Robinson. *Mycologia* **8**: 214-217. 15 Jl 1916.
- Greenman, J. R.** Monograph of the North and Central American species of the genus *Senecio*. Part II. *Ann. Missouri Bot. Gard.* **3**: 85-194. *pl.* 3-5. F 1916.  
Includes descriptions of five new species.
- Hans, A.** An interesting hybrid. *Am. Fern Jour.* **6**: 37-39. *pl.* 4. Je 1916.  
*Asplenium Trichomanes* var. *confluens*.
- Harder, E. C.** The occurrence of bacteria in frozen soil. *Bot. Gaz.* **61**: 507-517. *f.* 1, 2. 15 Je 1916.
- Harper, R. M.** The forest census of Alabama by geographical divisions. *Proc. Soc. Am. Forest* **11**: 208-214. Je 1916. [Illust.]
- Harper, R. M.** An inventory of Florida's forests and the outlook for the future. *Florida Agr. Dept. Quart. Bull.* **26**<sup>2</sup>: 5-24. *f.* 1-12. Je 1916.
- Harper, R. M.** Is forestry a science? *Torreyia* **16**: 136-139. 15 Je 1916.
- Harter, L. L.** Storage-rots of economic aroids. *Jour. Agr. Research* **6**: 549-572. *pl.* 81-83 + *f.* 1. 10 Jl 1916.
- Hill, E. J.** Notes on *Funaria*. *Bryologist* **19**: 35-37. 26 My 1916.
- Hillard, A. R.** A note on preservatives for algae. *Torreyia* **16**: 142, 143. 15 Je 1916.
- Holman, R. M.** The orientation of primary terrestrial roots with particular reference to the medium in which they are grown. *Am. Jour. Bot.* **3**: 274-318. *f.* 1-7. 15 Jl 1916.
- Howitt, J. E.** Grape diseases. *Ontario Dept. Agr. Bull.* **237**: 44-48. Mr. 1916.
- Jeffrey, E. C.** Charles René Zeiller. *Bot. Gaz.* **61**: 528, 529. 15 Je 1916. [Illust.]

- Johnson, D. S.** Cinchona as a tropical station for American botanists. Science II. 43: 917-919. 30 Je 1916.
- Jones, D. H.** Some bacterial diseases of vegetables found in Ontario. Ontario Dept. Agr. Bull. 240: 1-24. *pl.* 1-10. Je 1916.
- Lamb, W. H.** Hybrid trees. Jour. Heredity 7: 311-319. *f.* 12-15. 26 Je 1916.  
A review of a recent paper by A. Henry, "The black poplars," and contains additional information and suggestions.
- Livingston, B. E.** A single index to represent both moisture and temperature conditions as related to plants. Physiol. Researches 1: 421-440. *f.* 1. My 1916.
- Long, B.** A belated correction. Rhodora 18: 142, 143. 1 Je 1916.  
*Juncus brachycarpus* does not occur at Fort Fairfield, Maine.
- Long, B.** Distribution of *Carex aggregata* in the Philadelphia region. Torreya 16: 131-136. 15 Je 1916.
- MacCaughey, V.** The tree ferns of Hawaii. Am. Bot. 22: 1-9. F 1916.
- Maxon, W. R.** Studies of tropical American ferns—No. 6. Contr. U. S. Nat. Herb. 17: 541-608+i-viii. *pl.* 32-43. 23 My 1916.  
Includes *Polypodium Williamsii*, *P. subvestitum*, *P. fallacissimum*, *P. Rusbyi*, *P. guttatum*, *P. Collinsii*, *P. macrolepis*, *P. argentinum*, *P. bombycinum*, *P. Rosei*, and six other new species of *Polypodium*, and *Notholaena neglecta* and *N. aliena*, spp. nov.
- Miller, E. C.** Comparative study of the root systems and leaf areas of corn and the sorghums. Jour. Agr. Research 6: 311-332. *pl.* 38-44 + *f.* 1-3. 29 My 1916.
- Murrill, W. A.** (Agaricales) Agaricaceae (pars). Agariceae (pars). N. Am. Fl. 9: 297-374. 7 Je 1916.  
Includes *Geopetalum albescens*, *G. geophilum*, *G. subelatinum*, *G. tremelliforme*, *G. subhaedinum*, *Micromphale badium*, *Omphalopsis translucentipes*, *O. turbinata*, *O. pseudogrisea*, eleven other species in this genus and 53 in *Prunulus*, 15 in *Ophalina* and 44 in *Gymnopus*.
- Murrill, W. A.** Edible and poisonous mushrooms. 1-76. Chart. New York. 26 Je 1916.
- Murrill, W. A.** Illustrations of fungi—XXIV. Mycologia 8: 191-194. 15 Jl 1916.  
The following species are illustrated in color: *Lactaria atroviridis*, *L. hygrophoroides*, *L. testacea*, sp. nov.; *L. maculosa* sp. nov. and *L. torminosa*.
- Murrill, W. A.** An interesting *Arum* from India. Jour. N. Y. Bot. Gard. 17: 85, 86. 14 Jl 1916.  
*Amorphophallus bulbifer*.

- Murrill, W. A.** *Pleurotus, Omphalia, Mycena, and Collybia*, published in North American Flora. *Mycologia* 8: 218-221. 15 Jl 1916.
- Nichols, G. E.** The Bryophytes of Nova Scotia, with special reference to Cape Breton. *Bryologist* 19: 38-47. 26 My 1916.
- Nichols, G. E.** The vegetation of Connecticut. V. Plant societies along rivers and streams. *Bull. Torrey Club* 43: 235-264. *f.* 1-11. 16 Je 1916.
- Noble, M. A.** Fern hunting in Florida in the phosphate country. *Am. Fern Jour.* 6: 42-44. Je 1916.
- Nothnagel, M.** Reduction divisions in the pollen mother cells of *Allium tricoccum*. *Bot. Gaz.* 61: 453-476. *pl.* 28-30 + *f.* 1. 15 Je 1916.
- Ochoterena, I.** Lo Carioquinesis vegetativa en las plantas Mexicanas. *Bol. Dir. Est. Biol.* 1: 412-430. *f.* 1-19. Ap 1916.
- Olive, E. W.** Report of a trip to study and collect rusts and other parasitic fungi of Porto Rico. *Brooklyn Bot. Gard. Record* 5: 117-122. *f.* 8. Jl 1916.
- Orton, C. R.** The diseases of the potato. *Pennsylvania Agr. Exp. Sta. Bull.* 140: 4-37. *f.* 1-23. My 1916.
- Osterhout, W. J. V.** Permeability and viscosity. *Science* II. 43: 857-859. 16 Je 1916.
- Overholts, L. O.** New or interesting species of gill fungi from Missouri. *Ann. Missouri Bot. Gard.* 3: 195-200. *pl.* 6 + *f.* 1. F 1916.  
Includes *Claudopus subnidulans*, *Panaeolus reticulatus*, *P. rufus* and *P. variabilis*, spp. nov.
- Pfeifer, N. E.** The prothallia of *Ophioglossum vulgatum*. *Bot. Gaz.* 61: 518-522. *f.* 1-4. 16 Je 1916.
- Piper, C. V.** New plants from Oregon. *Proc. Biol. Soc. Washington* 29: 99-102. 6 Je 1916.  
Describes *Asarum marmoratum*, *Sidalcea cusickii*, *Carum erythrorhizum*, *Solidago cusickii* and *Eucephalus gormanii*, spp. nov.
- [Popenoe, P.]** Where are the best papaws? *Jour. Heredity* 7: 291-296. *f.* 1-4 + *frontispiece*. Jl 1916.  
*Asimina triloba*.
- Pratt, O. A.** A western fieldrot of the Irish potato tuber caused by *Fusarium radiculicola*. *Jour. Agr. Research* 6: 297-310. *pl.* 34-37. 29 My 1916.
- Prescott, A.** Oswego tea in the garden. *Am. Bot.* 22: 19. F 1916.
- Price, W. A.** Starch in apple trees. *Ohio Jour. Sci.* 16: 356-359. Je 1916.

- Pritchard, F. J.** Change of sex in hemp. Jour Heredity 7: 325-329. f. 19. 26 Je 1916.
- Rand, F. V., & Enlows, E. M. A.** Transmission and control of bacterial wilt of cucurbits. Jour. Agr. Research 6: 417-434. pl. 53, 54 + f. 1-3. 12 Je 1916.
- Rangel, E.** Contribuição para o estudo dos Puccinias das Myrtaceas. Archiv. Mus. Nac. Rio de Janeiro. 18: 147-156. pl. 1-4. 1916.  
Includes descriptions and illustrations of four new species.
- Rangel, E.** Fungos do Brazil, novos ou mal conhecidos. Archiv. Mus. Nac. Rio de Janeiro. 18: 157-164. pl. 5-7. 1916.  
Includes descriptions of fifteen new species in *Puccinia* (1), *Uromyces* (3), *Uredo* (4), *Mycosphaerella* (1), *Laestadia* (2), *Phyllosticta* (1), *Coniothyrium* (1), *Septogleum* (1), *Cercospora* (1), and *Phaeophleospora eugeniae* gen. et sp. nov.
- Reed, E. L.** Ecologic notes on *Drosera annua*. Torreya 16: 125-130. f. 1, 2. 15 Je 1916.
- Reed, G. B.** The measurement of oxidation potential and its significance in the study of oxidases. Bot. Gaz. 61: 523-527. f. 1, 2. 15 Je 1916.
- Rosen, H. R.** A known species of smut on a new host. Mycologia 8: 225, 226. 15 Jl 1916.  
*Clavetia leucoderma* on *Cyperus Gatesii*.
- Rowlee, W. W.** Plants from southern Patagonia collected by Charles Wellington Furlong. Bull. Torrey Club 43: 305-321. 29 Je 1916.
- Sampaio, A. J. de.** Contribuição ao estudo da flora do estado de Minas Geraes. Archiv. Mus. Nac. Rio de Janeiro 18: 1-38. 1916.
- Sampaio, A. J. de.** Plantae novae vel minus cognitae. I. Orchidaceae. Archiv. Mus. Nac. Rio de Janeiro 18: 55-63. pl. 1-3. 1916.  
Includes *Quekettia longirostellata*, *Pleurothallis Gouveiae*, *P. acuminatipetala* and *Phymatidium paranaense*, spp. nov.
- Satchwell, M. A.** Ferns of Duval County, Florida. Am. Fern Jour. 6: 39-42. Je 1916.
- Saunders, C. F.** A useful wild fruit. Am. Bot. 22: 20, 21. F 1916.  
*Opuntia Ficus-Indica*.
- Schaffner, J. H.** A general system of floral diagrams. Ohio Jour. Sci. 16: 360-364. pl. 27. Je 1916.
- Schultz, E. S.** Silver-scurf of the Irish potato caused by *Spondylocladium atrovirens*. Jour. Agr. Research 6: 339-350. pl. 45-48. 5 Je 1916.
- Seaver, F. J.** Photographs and descriptions of cup-fungi—III. *Peziza domiciliana* and *Peziza repanda*. Mycologia 8: 195-199. pl. 188, 189. 15 Jl 1916.



- Shaw, C. H.** The vegetation of the Selkirks. Bot. Gaz. **61**: 477-494.  
*Maps.* 15 Je 1916.  
Paper compiled by Miss Caroline S. Romer.
- Sherff, E. E.** Studies in the genus *Bidens*. III. Bot. Gaz. **61**: 495-506.  
*pl.* 31. 15 Je 1916.  
Includes *Bidens Andrei*, *B. attenuata*, and *B. mirabilis*, spp. nov.
- Shreve, F.** Experimental work at Cinchona. Science II. **43**: 919.  
30 Je 1916.
- Smith, E. F.** Studies on the crown gall of plants; its relation to human cancer. Jour. Cancer Research **1**: 231-309. *pl.* 1-25. Ap 1916.
- Smith, E. F.** Further evidence that crown gall of plants is cancer. Science II. **43**: 871-889. 23 Je 1916.
- Spaulding, P.** The white-pine blister rust. U. S. Dept. Agr. Farmers' Bull. 742: 1-15. *pl.* 1+f. 1-4. 9 Je 1916.
- Stakman, E. C., & Tolaas, A. G.** Fruit and vegetable diseases and their control. Minnesota Agr. Exp. Sta. Bull. 153: 7-67. *f.* 1-32. Ja 1916.
- Stakman, E. C., & Tolaas, A. G.** Potato diseases and their control. Minnesota Agr. Exp. Sta. Bull. 158: 7-47. *f.* 1-28. F 1916.
- Standley, P. C.** The ferns of Greene County, Missouri. Am. Fern Jour. **6**: 44-51. Je 1916.
- Stapf, O.** *Saxegothea conspicua*. Curt. Bot. Mag. IV. **12**: *pl.* 8664. Je 1916.  
A plant from Chile.
- Stevens, F. L.** Collecting plants in Porto Rico. Jour. N. Y. Bot. Gard. **17**: 82-85. 14 Jl 1916.
- Stevens, N. E.** Pathological histology of strawberries affected by species of *Botrytis* and *Rhizopus*. Jour. Agr. Research **6**: 361-366. *pl.* 49, 50. 5 Je 1916.
- St. John, H.** A revision of the North American species of *Potamogeton* of the section *Coleophylli*. Rhodora **18**: 121-138. 1 Je 1916.
- Sturgis, W. C.** Notes on the Myxomycetes of the Curtis Herbarium. Mycologia **8**: 199-213. 15 Jl 1916.
- Surface, F. M.** Studies on oat breeding. III. On the inheritance of certain glume characters in the cross *Avena fatua* × *A. sativa* var. *kherson*. Genetics **1**: 252-286. *pl.* 2, 3. My 1916.
- Surface, F. M., & Zinn, J.** Studies on oat breeding. IV. Pure line varieties. Maine Agr. Exp. Sta. Bull. 250: 97-148. *f.* 14-24. My 1916.

- Trelease, W.** The genus *Phoradendron*. A monographic revision. 1-224. *pl.* 1-245 + *frontispiece*. Urbana. 1916.  
Includes descriptions of 105 new species and several new varieties, new combinations and new names.
- Victorin, M.** La flore du Témiscouata. *Le Naturaliste Canadien* 42: 51-59. O 1915; 68-79. N 1915; 106-111. *f.* 12. Ja 1916; 121-126. *f.* 11. F 1916; 136-143. *f.* 13. Mr 1906; 153-158. *f.* 14. Ap 1916.
- Victorin, M.** Aberration in *Hepatica acutiloba*. *Ottawa Nat.* 30: 27, 28. *f.* 1. My 1916.
- Viehover, A., Johns, C. O., & Alsberg, C. L.** Cyanogenesis in plants. Studies on *Tridens flavus* (tall red top). *Jour. Biol. Chem.* 25: 141-150. My 1916.
- Vries, H. de.** The origin by mutation of the endemic plants of Ceylon. *Science II.* 43: 785-787. 2 Je 1916.
- Watson, B. M.** The viburnums. *Landscape Architectur* 6: 140-144. Ap 1916.
- Weir, J. R.** Pathological observations on the chestnut in southern Indiana. *Ann. Rep. Indiana State Board Forestry* 1915: 140-163. *f.* 26-32. 1915.
- Weir, J. R.** *Hypoderma deformans*, an undescribed needle fungus of the western yellow pine. *Jour. Agr. Research* 6: 277-288. *pl.* 32 + *f.* 1-4. 22 My 1916.
- Weir, J. R.** Mistletoe injury to conifers in the northwest. U. S. Dept. Agr. Bull. 360: 1-39. *pl.* 1-4 + *f.* 1-27. 17 Je 1916.
- Wells, A. E.** Fumigation experiments to determine the effect of highly diluted sulphur dioxide on a growing grain crop. U. S. Dept. Int. Mines Bull. 98: 213-307. *pl.* 14-25. Jl 1915.
- Wells, B. W.** The comparative morphology of the Zooecidia of *Celtis occidentalis*. *Ohio Jour. Sci.* 16: 249-290. *pl.* 12-19. My 1916.
- Werkenthin, F. C.** Fungous flora of Texas soils. *Phytopathology* 6: 241-253. Je 1916.
- White, O. E.** Variation, environment and the laws of heredity. *Brooklyn Bot. Gard. Leaflets* 4<sup>9</sup>: [1-12]. *f.* 1-9. 28 Je 1916.
- Williams, R. S.** Peruvian mosses. *Bull. Torrey Club* 43: 323-334. *pl.* 17-20. 29 Je 1916.  
Includes *Leptodontium integrifolium*, *Globulina peruviana*, *Tortula lacerifolia*, *Grimmia rivulariopsis*, *Bryum biforme*, and *Hygrohypnum peruvienne*, spp. nov.

- Wilson, T.** The use of wild plants as food by Indians. Ottawa Nat. 30: 17-21. My 1916.
- Wolf, F. A.** *Citrus* canker. Alabama Agr. Exp. Sta. Bull. 190: 91-100. pl. 1, 2 + f. 1-6. My 1916.
- Wolf, F. A.** Dissemination of bur clover leaf spot. Phytopathology 6: 301. Je 1916.
- Wolf, F. A.** *Neocosmospora vasinfecta* Erw. Sm. on potato and adzuki bean. Phytopathology 6: 301. Je 1916.
- Wolf, F. A.** *Sclerotium Rolfsii* Sacc. on *Citrus*. Phytopathology 6: 302. Je 1916.
- Wolfe, T. K.** Fasciation in maize kernels. Am. Nat. 50: 306-309. f. 1-3. My 1916.
- Wuist, E. D.** Sex and development of the gametophyte of *Onoclea Struthiopteris*. Physiol. Researches 1: 93-132. f. 1-15. S 1913.
- Young, H. D.** Studies on the relation of cement dust to *Citrus* vegetation. I. The effect on photosynthesis. Bioch. Bull. 5: 95-100. Mr 1916.
- Zahlbruckner, A.** Neue Arten und Formen der Lobelioiden. II. Repert. Sp. Nov. 14: 133-142. 15 O 1915; III. Repert. Sp. Nov. 14: 180-185. 31 D 1915.  
Includes nineteen new species in *Centropogon* (15), and *Siphocamplyus* (4).